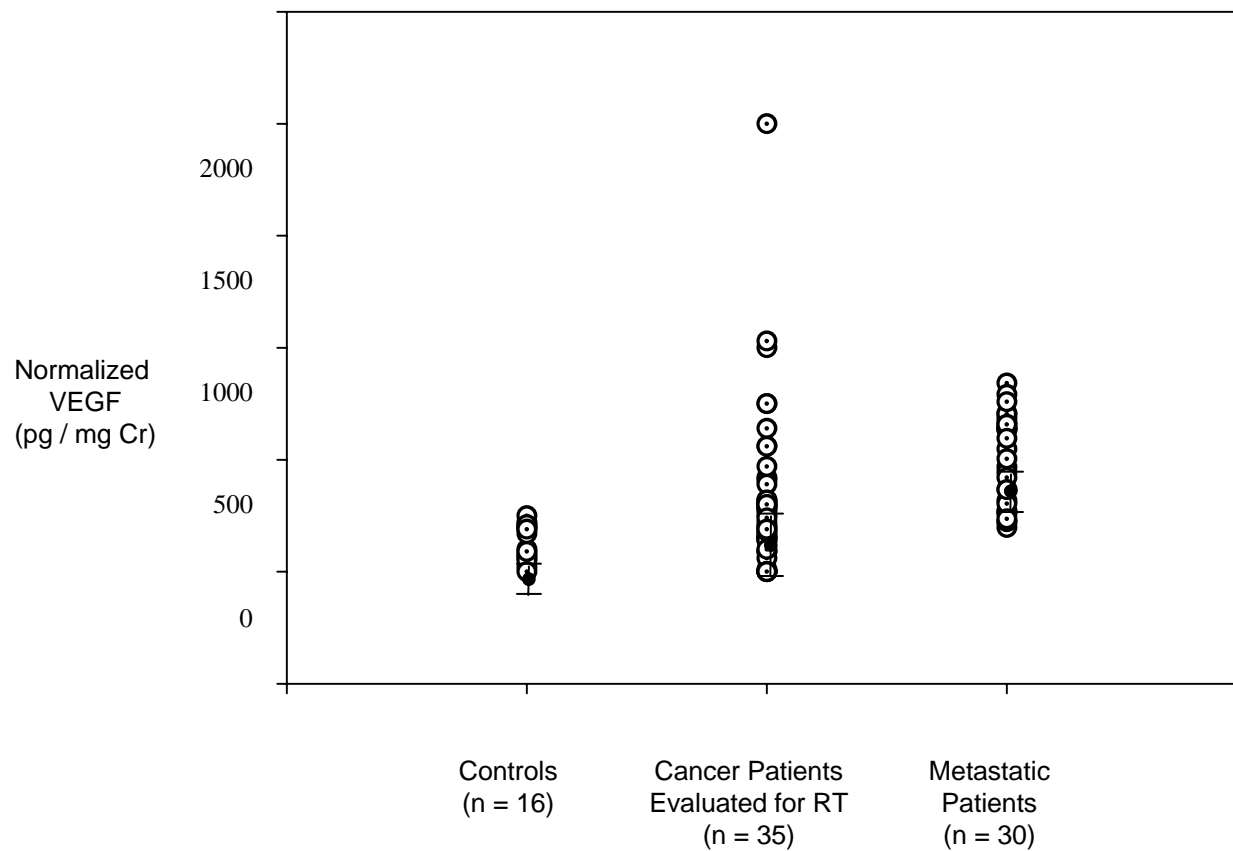


Urinary VEGF

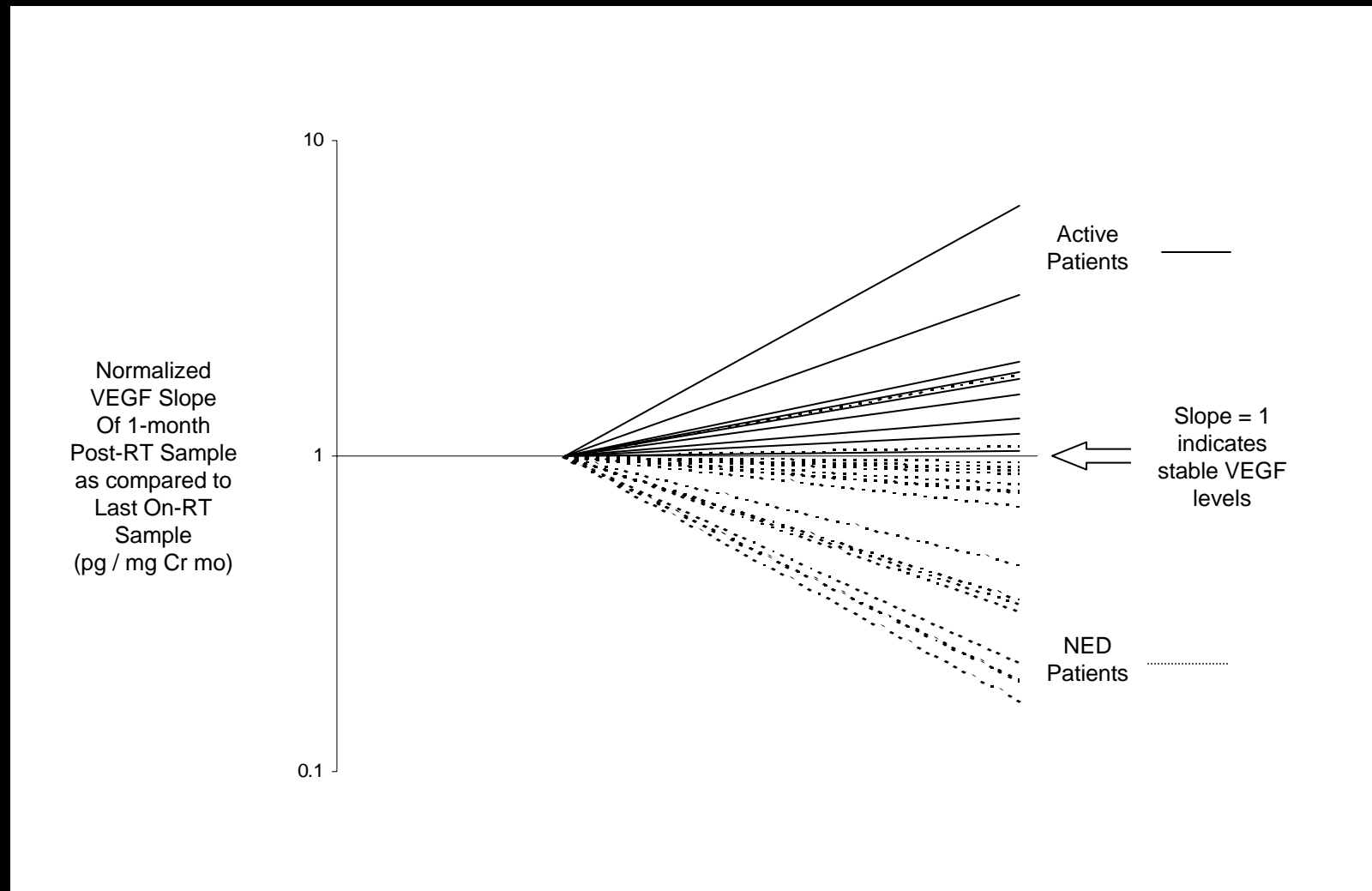
Kevin Camphausen
Radiation Oncology Branch
NCI

Can we monitor patients to detect either local recurrence or early metastatic disease?

Urinary VEGF Levels



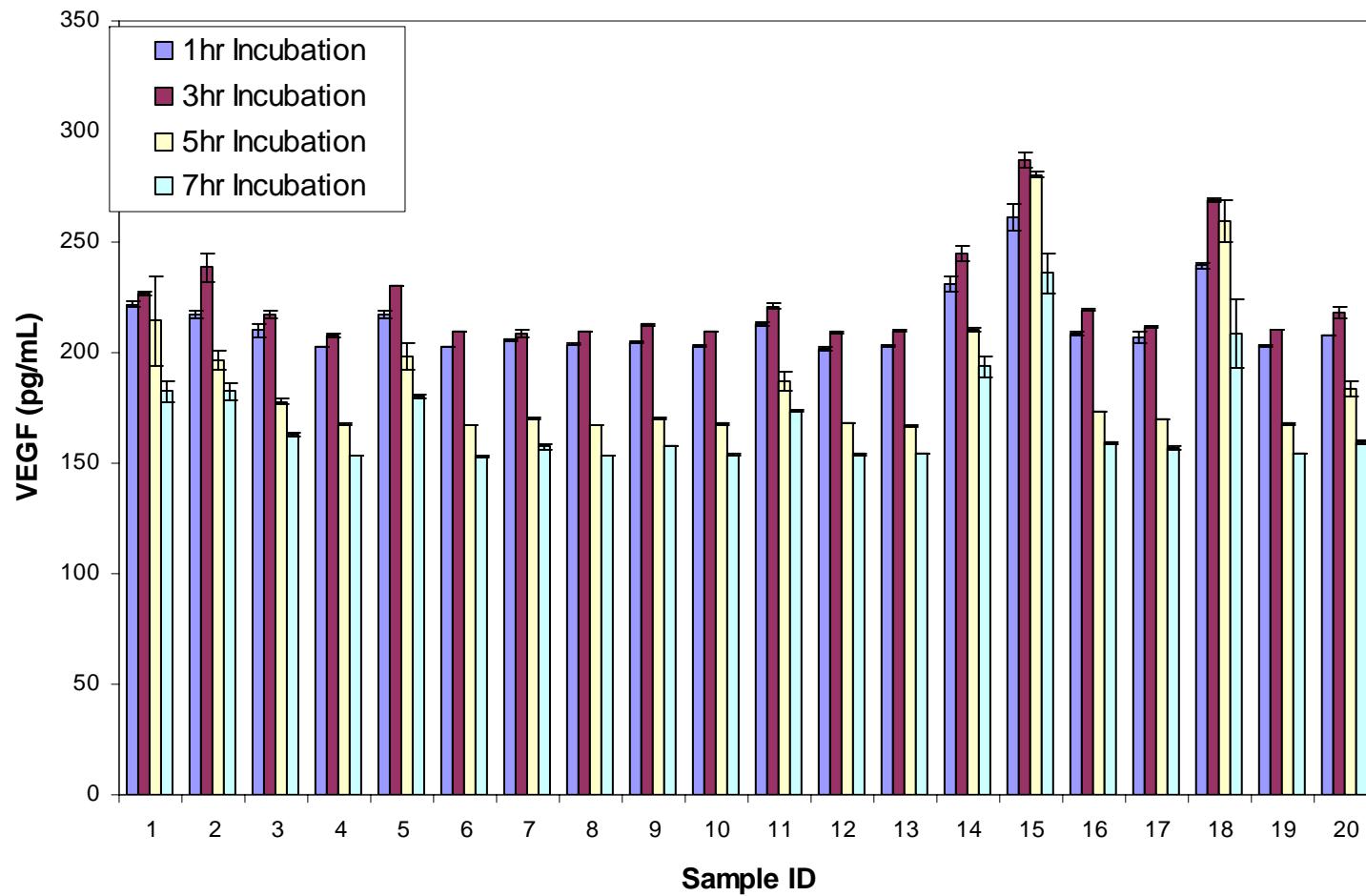
VEGF trend: Last day to 1-month Follow-up



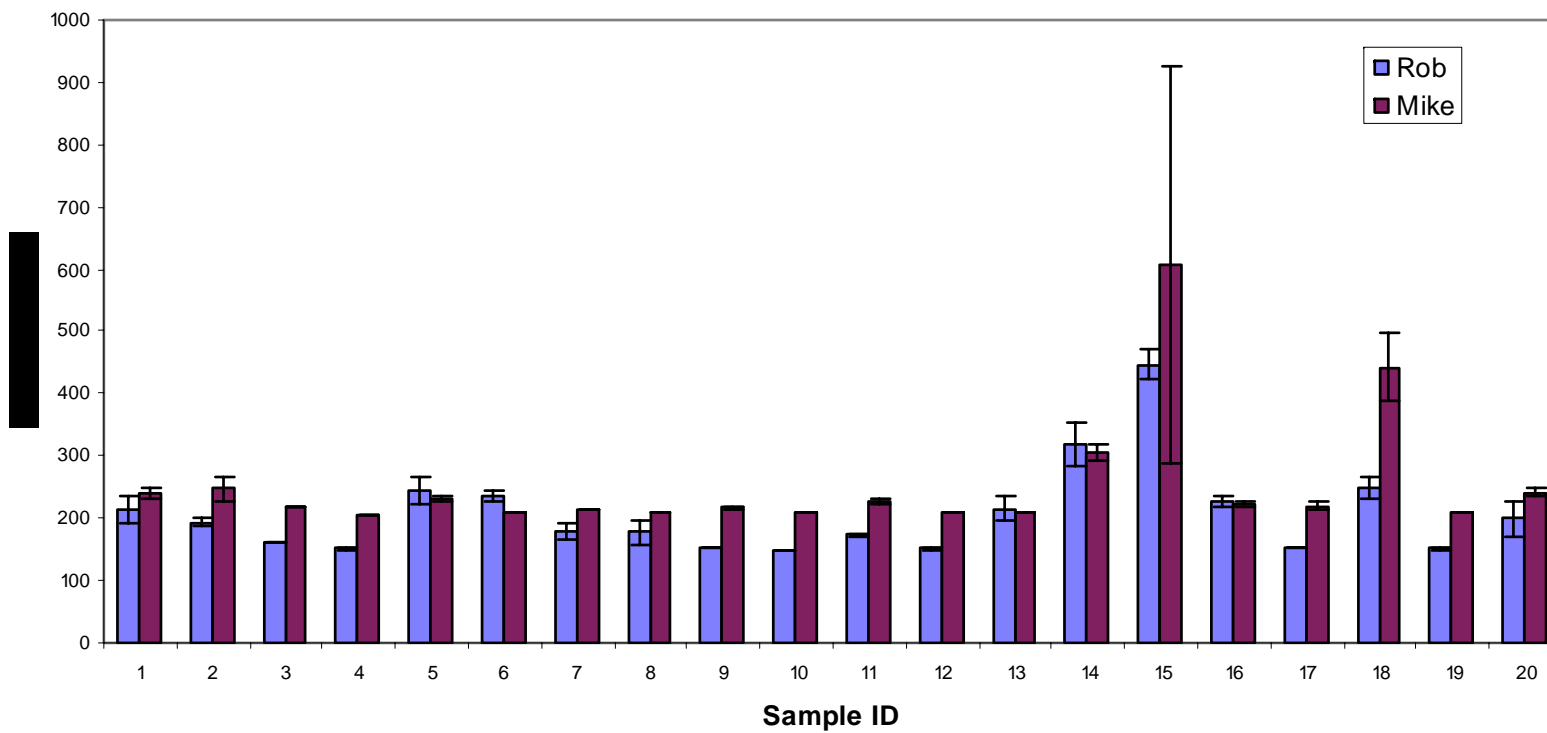
Potential Sources of Error

- Sample Issues
 - Time from collection to freezing
 - Length of time frozen
 - Number of freeze thaw cycles
 - Time of thaw
 - Total protein in urine
 - First urine of day
 - Sediment or no sediment
- Reproducibility
 - Eliza lot variation
 - Standard variation
 - Technician variation
 - Not FDA approved
 - Effect of sediment

VEGF Levels in Urine Thawed 1, 3, 5 and 7hr at Room Temp



Two Technician VEGF Experiment



Conclusions

- Assay reproducibility issues are easiest to resolve
- All must be resolved prior to biological
- Biological variability is most difficult to resolve